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WGU Foundations of Computer Science Sample Questions (Q62-Q67):

NEW QUESTION # 62

How can a user subset a NumPy array `bmi` to only include values over 23?

- A. `bmi[bmi > 23]`
- B. `bmi.where(bmi > 23)`
- C. `bmi.get_values(>23)`
- D. `bmi.select(23)`

Answer: A

Explanation:

NumPy supports a powerful technique called Boolean indexing (also called Boolean masking) to filter arrays based on a condition. When you write `bmi > 23`, NumPy performs an element-wise comparison and produces a Boolean array of the same shape, containing True where the condition holds and False otherwise. Using that Boolean array inside square brackets, as in `bmi[bmi > 23]`, tells NumPy to return a new 1D array containing only the elements whose mask value is True. This approach is heavily emphasized in scientific computing curricula because it expresses selection logic without explicit loops and runs efficiently in optimized compiled code.

Option B looks close but is not standard NumPy usage. The function commonly used is `np.where(condition)` or `np.where(condition, x, y)`. While `np.where(bmi > 23)` can return indices, `bmi.where(...)` is not a NumPy array method; it is more associated with pandas objects. Options A and C are not valid NumPy APIs for filtering.

Boolean indexing is central in data analysis tasks such as removing invalid measurements, selecting a population subgroup, applying thresholds, and building feature subsets. It composes cleanly with vectorized computation, for example `bmi[bmi > 23].mean()`, enabling concise and high-performance numerical workflows.

NEW QUESTION # 63

How is the NumPy package imported into a Python session?

- A. `import num_py`
- B. `import numpy as np`
- C. `include numpy`
- D. `using numpy`

Answer: B

Explanation:

In Python, external libraries are brought into a program using the `import` statement. NumPy, which provides the `ndarray` type and a large collection of numerical computing functions, is conventionally imported with an alias for convenience. The standard and widely taught pattern is `import numpy as np`. This imports the `numpy` module and binds it to the shorter name `np`, making code more readable and reducing repeated typing, especially in mathematical expressions such as `np.array(...)`, `np.mean(...)`, or `np.dot(...)`.

Option A is incorrect because the module name is `numpy`, not `num_py`. Options C and D resemble syntax from other languages (for example, "using" in C# or "include" in C/C++), but they are not valid Python import mechanisms. Python's module system is based on imports, and the aliasing feature (as `np`) is built into the import statement.

Textbooks also emphasize that importing a package requires that it be installed in the active Python environment. If NumPy is not installed, `import numpy as np` will raise an `ImportError` (or `ModuleNotFoundError` in modern Python). Once imported, the alias `np` is used consistently in scientific computing materials, notebooks, and professional data analysis codebases, which is why this option is considered the correct and expected answer.

NEW QUESTION # 64

What is the alternative way to access the third element of the first row in `np_2d`?

- A. `np_2d[1, 3]`
- B. `np_2d[0, 2]`
- C. `np_2d[3, 1]`
- D. `np_2d[2, 0]`

Answer: B

Explanation:

NumPy arrays use zero-based indexing, meaning counting starts at 0 rather than 1. In a 2D NumPy array, indexing is typically written in the form `array[row_index, column_index]`. The first index selects the row, and the second index selects the column. Therefore, the "first row" corresponds to row index 0. Within that row, the "third element" corresponds to column index 2, because the columns are indexed 0, 1, 2, 3, and so on.

So, `np_2d[0, 2]` directly selects the element at row 0 and column 2, which is the third element in the first row.

This is considered an "alternative" to approaches like two-step indexing (`np_2d[0][2]`), and it is the standard idiom taught for multi-dimensional NumPy arrays.

The other choices point to different locations. `np_2d[1, 3]` is the fourth element of the second row, not the third element of the first row. `np_2d[2, 0]` and `np_2d[3, 1]` attempt to access the third or fourth row, which would often be out of bounds in a small 2-row

example and would raise an `IndexError`. Correct indexing is a cornerstone of array programming because it determines which observation, feature, or matrix entry your computations will use.

NEW QUESTION # 65

What is the purpose of the pointer element of each node in a linked list?

- A. To keep track of the list size
- B. To store the data value
- C. To indicate the current position
- **D. To indicate the next node**

Answer: D

Explanation:

In a singly linked list, each node is a small record that typically contains two main parts: a data field and a pointer field. The data field stores the actual value being kept in the list. The pointer field stores the address or reference of another node. The pointer element's purpose is to connect one node to the next by indicating where the next node is located in memory. This is essential because linked-list nodes are not stored in contiguous memory locations the way array elements are. Nodes may exist anywhere in memory, and the pointer is what preserves the logical sequence of the list.

This design supports efficient structural changes. For traversal, a program starts at the head node and repeatedly follows the pointer to reach subsequent nodes. For insertion, a new node can be added by adjusting a small number of pointers instead of shifting many elements, as would be required in an array. For deletion, the list can "skip over" a node by updating the pointer in the previous node to reference the node after the removed one. The end of the list is typically represented by a null pointer value, signaling there is no next node.

Keeping track of list size or current position is not the responsibility of each node's pointer field; these are usually handled by separate variables or computed during traversal.

NEW QUESTION # 66

What is an ndarray in Python?

- A. A built-in Python data array used to store collections of items.
- B. A module that provides network socket functions similar to XML.
- **C. An n-dimensional array object provided by the NumPy library.**
- D. A native Python object that represents a tree-like hierarchical data structure.

Answer: C

Explanation:

An ndarray is NumPy's fundamental data structure: an n-dimensional array designed for efficient numerical computation. The term stands for "N-dimensional array," and it is implemented as `numpy.ndarray`. Unlike Python's built-in list, an ndarray stores elements in a compact, homogeneous format defined by its dtype (such as integers or floating-point numbers). This uniform representation enables fast, vectorized operations and efficient use of memory, which is why ndarray is central in scientific computing and data analysis.

An ndarray supports multiple dimensions: a 1D array behaves like a vector, a 2D array like a matrix (rows and columns), and higher-dimensional arrays represent tensors. Textbooks emphasize that ndarray operations are typically element-wise by default (for example, `a + b` adds corresponding elements), and that slicing and broadcasting allow powerful computations without explicit loops. This approach is both expressive and efficient because the heavy lifting happens in optimized low-level code.

Option A is incorrect because ndarray is not built into core Python; it comes from NumPy. Option B describes a tree, which is a different data structure entirely. Option D is incorrect because sockets and XML-related functionality belong to other parts of Python's standard library, not to NumPy or ndarray.

In short, an ndarray is the primary array object of NumPy, providing high-performance multi-dimensional numerical storage and computation.

NEW QUESTION # 67

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